Attorney Docket No. 88519.0002 Customer No.: 26021

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Original): A semiconductor light emitting device comprising a light emission layer, consisting of a GaN system semiconductor, which is interposed between an n type GaN system semiconductor layer and a p type GaN system semiconductor layer, wherein there is provided a Ga-doped $Mg_zZn_{1-z}O$ ($0\leq z<1$) electrode film.
- 2. (Original): The semiconductor light emitting device according to claim 1, characterized in that associated with a quantity of doped Ga, with which the $Mg_zZn_{1-z}O$ ($0\leq z<1$) electrode film is doped, wherein a carrier concentration is $1x10^{19}cm^{-3}$ or more and $5x10^{21}cm^{-3}$ or less.
- 3. (Original): The semiconductor light emitting device according to claim 1, characterized in that there is provided a metal electrode, which supplies an electric current to either the n type GaN system semiconductor layer or the p type GaN system semiconductor layer, and that said Ga-doped $Mg_zZn_{1-z}O$ ($0 \le z < 1$) electrode film is formed between the n type GaN system semiconductor layer or the p type GaN system semiconductor layer, and the metal electrode.
- 4. (Original): The semiconductor light emitting device according to claim 3, characterized in that associated with a quantity of, the doped Ga, with which the $Mg_zZn_{1-z}O$ ($0 \le z < 1$) electrode film is doped, wherein a carrier concentration is $1x10^{19}cm^{-3}$ or more and less than $5x10^{21}cm^{-3}$.

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- 5. (Currently amended): The semiconductor light emitting device according to claim 1, characterized in that there is provided a metal electrode, which supplies an electric current to either the n type GaN system semiconductor layer or the p type GaN system semiconductor layer, and that the metal electrode and the Ga-doped $Mg_zZn_{1-z}O$ ($0\leq z<1$) electrode film adjoin each other; and the metal electrode and the Ga-doped $Mg_zZn_{1-z}O$ ($0\leq z<1$) electrode film are arranged so as to be contiguous to the face of the n type GaN system semiconductor layer or the p type GaN system semiconductor layer and the metal electrode.
- 6. (Original): The semiconductor light emitting device according to claim 5, characterized in that associated with a quantity of the doped Ga, with which the $Mg_zZn_{1-z}O$ (0 $\leq z<1$) electrode is doped, wherein a carrier concentration is $1x10^{19}cm^{-3}$ or more and less than $5x10^{21}cm^{-3}$.
- 7. (Original): A semiconductor light emitting device comprising a light emission layer, consisting of a GaN system semiconductor, which is interposed between a n type GaN system semiconductor layer and a p type GaN system semiconductor layer, wherein there is provided a B-doped Mg_zZn_{1-z}O (0≤z<1) electrode film.
- 8. (Original): The semiconductor light emitting device according to claim 7, characterized in that associated with a quantity of the doped B, with which the $Mg_zZn_{1-z}O$ (0 $\leq z<1$) electrode is doped, wherein a carrier concentration is $1x10^{19}cm^{-3}$ or more and less than $5x10^{21}cm^{-3}$.
- 9. (Original): The semiconductor light emitting device according to claim 7, characterized in that there is provided a metal electrode, which supplies an electric current to either the n type GaN system semiconductor layer or the p type

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GaN system semiconductor layer, wherein said B-doped $Mg_zZn_{1-z}O$ ($0 \le z < 1$) electrode film is formed between the n type GaN system semiconductor layer or the p type GaN system semiconductor layer, and the metal electrode.

- 10. (Original): The semiconductor light emitting device according to claim 9, characterized in that associated with a quantity of the doped B, with which the $Mg_zZn_{1-z}O$ ($0\leq z<1$) electrode is doped, wherein a carrier concentration is $1x10^{19}cm^{-3}$ or more and less than $5x10^{21}cm^{-3}$.
- 11. (Currently amended): The semiconductor light emitting device according to claim 7, characterized in that there is provided a metal electrode, which supplies an electric current to either the n type GaN system semiconductor layer or the p type GaN system semiconductor layer, wherein the metal electrode and the B-doped $Mg_zZn_{1-z}O$ ($0\leq z<1$) electrode film adjoin each other and the metal electrode and the B-doped $Mg_zZn_{1-z}O$ ($0\leq z<1$) electrode film are arranged so as to be contiguous to the face of the n type GaN system semiconductor layer or the p type GaN system semiconductor layer and the metal electrode.
- 12. (Original): The semiconductor light emitting device according to claim 11, characterized in that associated with a quantity of the doped B, with which the $Mg_zZn_{1-z}O$ (0 \leq z<1) electrode is doped, wherein a carrier concentration is $1x10^{19}cm^{-3}$ or more and less than $5x10^{21}cm^{-3}$.